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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/993,442	12/18/1997	EARLE W. JENNINGS III	939A-040310	5108

7590 08/11/2003

ROBERT C COLWELL TOWNSEND AND TOWNSEND AND CREW TWO EMBARCADERO CENTER 8TH FLOOR SAN FRANCISCO, CA 94111

EXAMINER		
NGO, CHU	ONG D	
ART UNIT	PAPER NUMBER	
2124	34	
DATE MAILED: 08/11/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

Serial No. 08/993,442

Art Unit: 2124

2

DETAIL OF ACTION

1. Claims 1,3,10-18 and 23-26 are rejected under 35 U.S.C. 102(b) as being by Yamauchi et al. "Architecture and Implementation of a Highly Parallel Single-Chip Video DSP".

As per claims 1,3,10-18,25 and 26, Yamauchi et al. discloses in figure 2 an integrated circuit for image processing. The circuit has an interfacing circuit (PIO0-2) configured to control access to a memory (see page 209, col. 2, lines 15-26), an embedded processor (PROG SEQ), and an array processor having a first through fourth MAC units (DPU0-3). Each MAC unit (DPUi) is coupled to a local memory (CMi) (see page 209, col. 2, lines 1-7), a shared operand unit (IN1) for each pair of MAC units for simultaneously providing a shared operand to the MAC units of the respective pair, and a share output and feedback interface (VBUS4~7) as claimed.

As per claims 23 and 24, Yamauchi et al. also disclose in figure 6 an integrated circuit having multiprocessing systems as claimed.

2. Claims 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamauchi et al. "Architecture and Implementation of a Highly Parallel Single-Chip Video DSP".

It is noted that Yamauchi et al does not specifically disclose the integrated circuit using a simplified IEEE floating point notation in the computation. However, the use of a simplified

Serial No. 08/993,442

Art Unit: 2124

3

IEEE floating point notation in the computation would have been obvious to a person of ordinary skill in the art for increasing the data range.

- 3. Claim 20 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. Applicant's arguments filed 07-02-03 have been fully considered but they are not persuasive because Yamauchi et al. does discloses in figure 2 a share output and feedback interface (VBUS4~7) which is coupled to the outputs of the output multiplexors of the plurality of MAC units (see DPU0), and provides the outputs back to the plurality of MAC units or the local memories as claimed.
- 5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

Art Unit: 2124

4

however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

- 6. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D. Ngo whose telephone number is (703) 305-9764. The examiner can normally be reached on Monday-Friday from 7:30 AM to 6:00 PM.

The fax phone number for the organization where this application or proceeding is assigned are as follows:

(703) 746-7238	(After Final Communication)
(703) 746-7239	(Official Communication)
(703) 746-7240	(For Status inquiries, draft communication)

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Chuong D. Ngo Primary Examiner Art Unit 2124

08-07-03.